

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/549,474
Source: PCP/10
Date Processed by STIC: 10/3/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/549,474

CRF Edit Date: 10/5/05
Edited by: SR

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

— Deleted: / invalid beginning/end-of-file text ; / page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

— Other:



PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,474

DATE: 10/05/2005

TIME: 17:08:07

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\10052005\J549474.raw

3 <110> APPLICANT: Sueishi, Katsuo
 4 Yonemitsu, Yoshikazu
 5 Yamashita, Akihisa
 6 Yoshimura, Akihiko
 7 Hasegawa, Mamoru
 9 <120> TITLE OF INVENTION: Methods of Treating Inflammatory Diseases
 10 Associated With Bone Destruction (as amended)
 12 <130> FILE REFERENCE: 50026/055001
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/549,474
 C--> 14 <141> CURRENT FILING DATE: 2005-09-14
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/002887
 15 <151> PRIOR FILING DATE: 2004-03-05
 17 <150> PRIOR APPLICATION NUMBER: JP 2003-075964
 18 <151> PRIOR FILING DATE: 2003-03-19
 20 <160> NUMBER OF SEQ ID NOS: 6
 22 <170> SOFTWARE: PatentIn version 3.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 900
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Homo sapiens
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (1)..(900)
 32 <223> OTHER INFORMATION:

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 37 1 5 10 15
 39 aca ctc tgc acc gct agg ccg tcc ccg acc ttg cct gaa caa gat gct 96
 40 Thr Leu Cys Thr Ala Arg Pro Ser Pro Thr Leu Pro Glu Gln Asp Ala
 41 20 25 30
 43 ctc ccc tcc tcg gag gat gat gat gat gac tcc tct tca gag 144
 44 Leu Pro Ser Ser Glu Asp Asp Asp Asp Asp Ser Ser Ser Glu
 45 35 40 45
 47 gag aaa gaa aca gat aac acc aaa cca aac ccc gta gct cca tat.tgg 192
 48 Glu Lys Glu Thr Asp Asn Thr Lys Pro Asn Pro Val Ala Pro Tyr Trp
 49 50 55 60
 51 aca tcc cca gaa aag atg gaa aag aaa ttg cat gca gtg ccg gct gcc 240
 52 Thr Ser Pro Glu Lys Met Glu Lys Lys Leu His Ala Val Pro Ala Ala
 53 65 70 75 80
 55 aag aca gtg aag ttc aaa tgc cct tcc agt ggg acc cca aac ccc aca 288
 56 Lys Thr Val Lys Phe Lys Cys Pro Ser Ser Gly Thr Pro Asn Pro Thr
 57 85 90 95

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61				100					105						110		
63	gga	ggc	tac	aag	gtc	cgt	tat	gcc	acc	tgg	agc	atc	ata	atg	gac	tct	384
64	Gly	Gly	Tyr	Lys	Val	Arg	Tyr	Ala	Thr	Trp	Ser	Ile	Ile	Met	Asp	Ser	
65				115					120						125		
67	gtg	gtg	ccc	tct	gac	aag	ggc	aac	tac	acc	tgc	att	gtg	gag	aat	gag	432
68	Val	Val	Pro	Ser	Asp	Lys	Gly	Asn	Tyr	Thr	Cys	Ile	Val	Glu	Asn	Glu	
69				130					135						140		
71	tac	ggc	agc	atc	aac	cac	aca	tac	cag	ctg	gat	gtc	gtg	gag	cgg	tcc	480
72	Tyr	Gly	Ser	Ile	Asn	His	Thr	Tyr	Gln	Leu	Asp	Val	Val	Glu	Arg	Ser	
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75	cct	cac	cgg	ccc	atc	ctg	caa	gca	ggg	ttg	ccc	gcc	aac	aaa	aca	gtg	528
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79	gcc	ctg	ggt	agc	aac	gtg	gag	ttc	atg	tgt	aag	gtg	tac	agt	gac	ccg	576
80	Ala	Leu	Gly	Ser	Asn	Val	Glu	Phe	Met	Cys	Lys	Val	Tyr	Ser	Asp	Pro	
81				180					185						190		
83	cag	ccg	cac	atc	cag	tgg	cta	aag	cac	atc	gag	gtg	aat	ggg	agc	aag	624
84	Gln	Pro	His	Ile	Gln	Trp	Leu	Lys	His	Ile	Glu	Val	Asn	Gly	Ser	Lys	
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87	att	ggc	cca	gac	aac	ctg	cct	tat	gtc	cag	atc	ttg	aag	gta	atc	atg	672
88	Ile	Gly	Pro	Asp	Asn	Leu	Pro	Tyr	Val	Gln	Ile	Leu	Lys	Val	Ile	Met	
89				210					215						220		
91	gca	cca	gtc	ttc	gtg	ggc	cag	tct	act	ggg	aag	gag	acc	act	gtc	tcg	720
92	Ala	Pro	Val	Phe	Val	Gly	Gln	Ser	Thr	Gly	Lys	Glu	Thr	Thr	Val	Ser	
93	225				230					235						240	
95	ggg	gct	caa	gtt	cct	gtg	ggc	agg	ctc	agt	tgc	ccc	cga	atg	gga	tca	768
96	Gly	Ala	Gln	Val	Pro	Val	Gly	Arg	Leu	Ser	Cys	Pro	Arg	Met	Gly	Ser	
97				245					250						255		
99	ttc	ctc	acg	ctt	cag	gca	cac	aca	ctc	cat	ctc	agt	agg	gat	cta	gcc	816
100	Phe	Leu	Thr	Leu	Gln	Ala	His	Thr	Leu	His	Leu	Ser	Arg	Asp	Leu	Ala	
101				260					265						270		
103	aca	tcc	ccc	agg	act	agt	aac	aga	ggt	cac	aaa	gtg	gag	gtg	agc	tgg	864
104	Thr	Ser	Pro	Arg	Thr	Ser	Asn	Arg	Gly	His	Lys	Val	Glu	Val	Ser	Trp	
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107	gaa	cag	agg	gct	gca	ggg	atg	ggt	ggt	gct	ggt	ctg					900
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121	Thr	Leu	Cys	Thr	Ala	Arg	Pro	Ser	Pro	Thr	Leu	Pro	Glu	Gln	Asp	Ala	
122					20					25					30		
124	Leu	Pro	Ser	Ser	Glu	Asp	Asp	Asp	Asp	Asp	Asp	Ser	Ser	Ser	Glu		

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Output Set: N:\CRF4\10052005\J549474.raw

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130	Thr	Ser	Pro	Glu	Lys	Met	Glu	Lys	Lys	Leu	His	Ala	Val	Pro	Ala	Ala	
131	65			70		75										80	
133	Lys	Thr	Val	Lys	Phe	Lys	Cys	Pro	Ser	Ser	Gly	Thr	Pro	Asn	Pro	Thr	
134				85			90									95	
136	Leu	Arg	Trp	Leu	Lys	Asn	Gly	Lys	Glu	Phe	Lys	Pro	Asp	His	Arg	Ile	
137				100			105									110	
139	Gly	Gly	Tyr	Lys	Val	Arg	Tyr	Ala	Thr	Trp	Ser	Ile	Ile	Met	Asp	Ser	
140				115			120									125	
142	Val	Val	Pro	Ser	Asp	Lys	Gly	Asn	Tyr	Thr	Cys	Ile	Val	Glu	Asn	Glu	
143				130		135										140	
145	Tyr	Gly	Ser	Ile	Asn	His	Thr	Tyr	Gln	Leu	Asp	Val	Val	Glu	Arg	Ser	
146	145				150			155								160	
148	Pro	His	Arg	Pro	Ile	Leu	Gln	Ala	Gly	Leu	Pro	Ala	Asn	Lys	Thr	Val	
149					165			170								175	
151	Ala	Leu	Gly	Ser	Asn	Val	Glu	Phe	Met	Cys	Lys	Val	Tyr	Ser	Asp	Pro	
152					180			185								190	
154	Gln	Pro	His	Ile	Gln	Trp	Leu	Lys	His	Ile	Glu	Val	Asn	Gly	Ser	Lys	
155					195		200									205	
157	Ile	Gly	Pro	Asp	Asn	Leu	Pro	Tyr	Val	Gln	Ile	Leu	Lys	Val	Ile	Met	
158					210		215									220	
160	Ala	Pro	Val	Phe	Val	Gly	Gln	Ser	Thr	Gly	Lys	Glu	Thr	Thr	Val	Ser	
161	225					230			235							240	
163	Gly	Ala	Gln	Val	Pro	Val	Gly	Arg	Leu	Ser	Cys	Pro	Arg	Met	Gly	Ser	
164					245			250								255	
166	Phe	Leu	Thr	Leu	Gln	Ala	His	Thr	Leu	His	Leu	Ser	Arg	Asp	Leu	Ala	
167					260			265								270	
169	Thr	Ser	Pro	Arg	Thr	Ser	Asn	Arg	Gly	His	Lys	Val	Glu	Val	Ser	Trp	
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189	1				5			10								15	
191	acg	ccc	cgt	gac	ggt	ggc	aga	cag	cgt	ggg	gag	ccc	gac	ccc	aga	gac	96
192	Thr	Pro	Arg	Asp	Gly	Gly	Arg	Gln	Arg	Gly	Glu	Pro	Asp	Pro	Arg	Asp	
193					20			25								30	
195	gcc	ctc	acc	cag	cag	gta	cat	gtc	ttg	tct	ctg	gat	cag	atc	aga	gcc	144

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DATE: 10/05/2005
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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\10052005\J549474.raw

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200 Ile Arg Asn Thr Asn Glu Tyr Thr Glu Gly Pro Thr Val Val Pro Arg		
201 50	55	60
203 cct ggg ctc aag cct gct cct cgc ccc tcc act cag cac aaa cac gag		240
204 Pro Gly Leu Lys Pro Ala Pro Arg Pro Ser Thr Gln His Lys His Glu		
205 65	70	75 80
207 aga ctc cac ggt ctg cct gag cac cgc cag cct agg ctc cag cac		288
208 Arg Leu His Gly Leu Pro Glu His Arg Gln Pro Pro Arg Leu Gln His		
209 85	90	95
211 tcg cag gtc cat tct tct gca cga gcc cct ctg tcc aga tcc ata agc		336
212 Ser Gln Val His Ser Ser Ala Arg Ala Pro Leu Ser Arg Ser Ile Ser		
213 100	105	110
215 acg gtc agc tca ggg tcg cgg agc agt acg agg aca agt acc agc agc		384
216 Thr Val Ser Ser Gly Ser Arg Ser Ser Thr Arg Thr Ser Thr Ser Ser		
217 115	120	125
219 agc tcc tct gaa cag aga ctg cta gga tca tcc ttc tcc tcc ggg cct		432
220 Ser Ser Ser Glu Gln Arg Leu Leu Gly Ser Ser Phe Ser Ser Gly Pro		
221 130	135	140
223 gtt gct gat ggc ata atc cgg gtg caa ccc aaa tct gag ctc aag cca		480
224 Val Ala Asp Gly Ile Ile Arg Val Gln Pro Lys Ser Glu Leu Lys Pro		
225 145	150	155 160
227 ggt gag ctt aag cca ctg agc aag gaa gat ttg ggc ctg cac gcc tac		528
228 Gly Glu Leu Lys Pro Leu Ser Lys Glu Asp Leu Gly Leu His Ala Tyr		
229 165	170	175
231 agg tgt gag gac tgt ggc aag tgc aaa tgt aag gag tgc acc tac cca		576
232 Arg Cys Glu Asp Cys Gly Lys Cys Lys Cys Lys Glu Cys Thr Tyr Pro		
233 180	185	190
235 agg cct ctg cca tca gac tgg atc tgc gac aag cag tgc ctt tgc tgc		624
236 Arg Pro Leu Pro Ser Asp Trp Ile Cys Asp Lys Gln Cys Leu Cys Ser		
237 195	200	205
239 gcc cag aac gtc att gac tat ggg act tgt gta tgc tgt gtg aaa ggt		672
240 Ala Gln Asn Val Ile Asp Tyr Gly Thr Cys Val Cys Cys Val Lys Gly		
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243 ctc ttc tat cac tgt tct aat gat gat gag gac aac tgt gct gac aac		720
244 Leu Phe Tyr His Cys Ser Asn Asp Asp Glu Asp Asn Cys Ala Asp Asn		
245 225	230	235 240
247 cca tgt tct tgc agc cag tct cac tgt tgt aca cga tgg tca gcc atg		768
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249 245	250	255
251 ggt gtc atg tcc ctc ttt ttg cct tgt tta tgg tgt tac ctt cca gcc		816
252 Gly Val Met Ser Leu Phe Leu Pro Cys Leu Trp Cys Tyr Leu Pro Ala		
253 260	265	270
255 aag ggt tgc ctt aaa ttg tgc cag ggg tgt tat gac cgg gtt aac agg		864
256 Lys Gly Cys Leu Lys Leu Cys Gln Gly Cys Tyr Asp Arg Val Asn Arg		
257 275	280	285
259 cct ggt tgc cgc tgt aaa aac tca aac aca gtt tgc tgc aaa gtt ccc		912
260 Pro Gly Cys Arg Cys Lys Asn Ser Asn Thr Val Cys Cys Lys Val Pro		

RAW SEQUENCE LISTING
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DATE: 10/05/2005
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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\10052005\J549474.raw

261	290	295	300	
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268	<210> SEQ ID NO: 4			
269	<211> LENGTH: 315			
270	<212> TYPE: PRT			
271	<213> ORGANISM: Homo sapiens			
273	<400> SEQUENCE: 4			
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281	Ala Leu Thr Gln Gln Val His Val Leu Ser Leu Asp Gln Ile Arg Ala			
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284	Ile Arg Asn Thr Asn Glu Tyr Thr Glu Gly Pro Thr Val Val Pro Arg			
285	50	55	60	
287	Pro Gly Leu Lys Pro Ala Pro Arg Pro Ser Thr Gln His Lys His Glu			
288	65	70	75	80
290	Arg Leu His Gly Leu Pro Glu His Arg Gln Pro Pro Arg Leu Gln His			
291	85	90	95	
293	Ser Gln Val His Ser Ser Ala Arg Ala Pro Leu Ser Arg Ser Ile Ser			
294	100	105	110	
296	Thr Val Ser Ser Gly Ser Arg Ser Ser Thr Arg Thr Ser Thr Ser Ser			
297	115	120	125	
299	Ser Ser Ser Glu Gln Arg Leu Leu Gly Ser Ser Phe Ser Ser Gly Pro			
300	130	135	140	
302	Val Ala Asp Gly Ile Ile Arg Val Gln Pro Lys Ser Glu Leu Lys Pro			
303	145	150	155	160
305	Gly Glu Leu Lys Pro Leu Ser Lys Glu Asp Leu Gly Leu His Ala Tyr			
306	165	170	175	
308	Arg Cys Glu Asp Cys Gly Lys Cys Lys Cys Lys Glu Cys Thr Tyr Pro			
309	180	185	190	
311	Arg Pro Leu Pro Ser Asp Trp Ile Cys Asp Lys Gln Cys Leu Cys Ser			
312	195	200	205	
314	Ala Gln Asn Val Ile Asp Tyr Gly Thr Cys Val Cys Cys Val Lys Gly			
315	210	215	220	
317	Leu Phe Tyr His Cys Ser Asn Asp Asp Glu Asp Asn Cys Ala Asp Asn			
318	225	230	235	240
320	Pro Cys Ser Cys Ser Gln Ser His Cys Cys Thr Arg Trp Ser Ala Met			
321	245	250	255	
323	Gly Val Met Ser Leu Phe Leu Pro Cys Leu Trp Cys Tyr Leu Pro Ala			
324	260	265	270	
326	Lys Gly Cys Leu Lys Leu Cys Gln Gly Cys Tyr Asp Arg Val Asn Arg			
327	275	280	285	
329	Pro Gly Cys Arg Cys Lys Asn Ser Asn Thr Val Cys Cys Lys Val Pro			
330	290	295	300	
332	Thr Val Pro Pro Arg Asn Phe Glu Lys Pro Thr			
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/549,474

DATE: 10/05/2005

TIME: 17:08:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10052005\J549474.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:34 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:32

L:186 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:184

L:346 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:344

Raw Sequence Listing before editing (for reference only)



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,474

DATE: 10/03/2005

TIME: 14:12:21

Input Set : A:\50026.055001 D3-A0206Psq.txt
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3 <110> APPLICANT: Sueishi, Katsuo
 4 Yonemitsu, Yoshikazu
 5 Yamashita, Akihisa
 6 Yoshimura, Akihiko
 7 Hasegawa, Mamoru
 9 <120> TITLE OF INVENTION: Methods of Treating Inflammatory Diseases
 10 Associated With Bone Destruction (as amended)
 12 <130> FILE REFERENCE: 50026/055001
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/549,474
C--> 14 <141> CURRENT FILING DATE: 2005-09-14
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/002887
 15 <151> PRIOR FILING DATE: 2004-03-05
 17 <150> PRIOR APPLICATION NUMBER: JP 2003-075964
 18 <151> PRIOR FILING DATE: 2003-03-19
 20 <160> NUMBER OF SEQ ID NOS: 6
 22 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

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 453 <211> LENGTH: 410
 454 <212> TYPE: PRT
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 466 35 40 45
 468 Pro Glu Gly Asn Gly Arg Ser Gly Phe Leu Ile His Gly Glu Arg Gln
 469 50 55 60
 471 Lys Asp Lys Leu Val Val Leu Glu Cys Tyr Val Arg Lys Asp Leu Val
 472 65 70 75 80
 474 Tyr Thr Lys Ala Asn Pro Thr Phe His His Trp Lys Val Asp Asn Arg
 475 85 90 95
 477 Lys Phe Gly Leu Thr Phe Gln Ser Pro Ala Asp Ala Arg Ala Phe Asp
 478 100 105 110
 480 Arg Gly Val Arg Lys Ala Ile Glu Asp Leu Ile Glu Gly Ser Thr Thr
 481 115 120 125
 483 Ser Ser Ser Thr Leu His Asn Glu Ala Glu Leu Gly Asp Asp Asp Val
 484 130 135 140

P.J.
*Does Not Comply
 Corrected Diskette Needed*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/549,474

DATE: 10/03/2005
TIME: 14:12:21

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Output Set: N:\CRF4\10032005\J549474.raw

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490						165				170					175	
492	Ile	Tyr	Thr	Leu	Asp	Pro	Tyr	Pro	Met	Asp	His	Tyr	His	Pro	Asp	Gln
493						180			185					190		
495	Arg	Leu	Pro	Arg	Ser	Tyr	Pro	Gln	Val	Thr	Phe	Pro	Glu	Asp	Asp	Glu
496						195			200					205		
498	Glu	Ile	Val	Arg	Ile	Asn	Pro	Arg	Glu	Lys	Ile	Trp	Met	Thr	Gly	Tyr
499						210			215			220				
501	Glu	Asp	Tyr	Arg	His	Ala	Pro	Val	Arg	Gly	Lys	Tyr	Leu	Asp	Thr	Thr
502	225					230			235					240		
504	Glu	Asp	Ala	Asp	Ser	Tyr	Val	Arg	Phe	Ala	Lys	Gly	Glu	Val	Pro	Lys
505						245			250					255		
507	His	Glu	Tyr	Thr	Tyr	Pro	Tyr	Val	Asp	Ser	Ser	Asp	Phe	Gly	Phe	Gly
508						260			265				270			
510	Glu	Asp	Pro	Lys	Gly	Ser	Val	Ile	Lys	Thr	Gln	Pro	Pro	Arg	Ala	Lys
511						275			280			285				
513	Ser	Arg	Arg	Arg	Lys	Glu	Asn	Gly	Glu	Arg	Ser	Arg	Cys	Val	Tyr	Cys
514						290			295			300				
516	Arg	Asp	Met	Phe	Asn	His	Glu	Glu	Asn	Arg	Arg	Gly	His	Cys	Gln	Asp
517	305					310			315					320		
519	Ala	Pro	Asp	Ala	Val	Arg	Thr	Cys	Ile	Arg	Arg	Val	Ser	Cys	Met	Trp
520						325			330				335			
522	Cys	Ala	Asp	Ser	Met	Leu	Tyr	His	Cys	Met	Ser	Asp	Pro	Glu	Gly	Asp
523						340			345			350				
525	Tyr	Thr	Asp	Pro	Cys	Ser	Cys	Asp	Thr	Ser	Asp	Glu	Lys	Phe	Cys	Leu
526						355			360			365				
528	Arg	Trp	Met	Ala	Leu	Ile	Ala	Leu	Ser	Phe	Leu	Ala	Pro	Cys	Met	Cys
529						370			375			380				
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/549,474

DATE: 10/03/2005

TIME: 14:12:22

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:32
L:186 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:184
L:346 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:344
L:543 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6